

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
15	KSRRB 500-11: Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50 / 75mm compacted thickness with 3.3% bitumen but excluding cost of primer / tack cost with lead upto 1km including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH chapter 5, With 80/100 grade bitumen, No. 149/ Item No. 21.11.1/ PWD SR 2010-11	Cum							
			1	70.00	18.70	0.05	65.45		
			0.5	50.28	37.31	0.05	46.90		
							112.35	5495.31	617391.00
	Basic Rate	5088.25							
	Area Weightage @ 8%	407.06							
	Total	5495.31							
16	KSRRB 500-7: providing and applying tack coat on the prepared black topped surfaces at 5kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding clearing of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH chapter 5, No. 149/ Item No. 21.7/ PWD SR 2010-11	Sqm							
			1	50.00	18.85		942.50		
			1	70.00	18.70		1309.00		
			0.5	50.28	37.31		937.97		
							3189.47	23.44	74748.00
	Basic Rate	21.70							
	Area Weightage @ 8%	1.74							
	Total	23.44							
17	KSRRB M500-19: providing and laying bituminous concrete 40mm thick with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 500.9 complete in all respects as per specifications. MORTH specification NO. 509, With bitumen 80/100, No. 152/ Item No. 21.22.1/ PWD SR 2010-11	Cum							

SI	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	136.00							
	Area Weightage @ 8%	10.88							
	Total	146.88							
13	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to wet mix macadam specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specification NO. 406, Page No. 143/ Item No. 20.18/ PWD SR 2010-11	Cum							
			1	70.00	18.70	0.30	392.70		
			0.5	50.28	37.31	0.30	281.39		
							674.09	1061.64	715643.00
	Basic Rate	983.00							
	Area Weightage @ 8%	78.64							
	Total	1061.64							
14	KSRRB 500-4: providing and applying primer coat from 7.5 to 9.8 kg and 9.8 to 12.2kg per 10 sqm for surfaces of low and medium porosity respectively over prepared surface of granular base with cut bank M.C-70 or any other bitumen mixed with diesel at 10 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications MORTH chapter 5, No. 147/ Item No. 21.4/ PWD SR 2010-11	Sqm							
			1	70.00	18.70		1309.00		
			0.5	50.28	37.31		937.97		
							2246.97	74.38	167129.00
	Basic Rate	68.87							
	Area Weightage @ 8%	5.51							
	Total	74.38							

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SI	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
10	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of nominal mix 1:1.5:3 with 20mm and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1.4.6, No. 12/ Item No. 4.11/ PWD SR 2010-11	cum							
	For Culvert		1	19.60	1.80	0.30	10.58		
	For RCC Drain Bottom		1	61.86	1.80	0.15	16.70		
	Sides		2	61.86	0.15	1.20	22.27		
	Bottom		1	5.00	1.80	0.15	1.35		
	Sides		2	5.00	0.15	1.20	1.80		
	Bottom		1	15.00	1.80	0.15	4.05		
	Sides		2	15.00	0.15	1.20	5.40		
							62.16	5247.72	326176.00
	Basic Rate	4539.00							
	Add Difference in Cost of Cement 8.00x40.00 =	320.00							
		4859.00							
	Area Weightage @ 8%	388.72							
	Total	5247.72							
11	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Page No. 16/ Item No. 4.46/ PWD SR 2010-11	Qtl							
	For Culvert @ 90 Kg / Cum		0.90	10.58			9.53		
	For CC Drain @ 75 Kg/Cum		0.60	0.75	51.57		38.68		
							48.20	5838.48	281441.00
	Basic Rate	5406.00							
	Area Weightage @ 8%	432.48							
	Total	5838.48							
12	KSRRB M300-53: construction of embankment with approved material gravel/murum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murum, watering charges & compaction by vibratory roller) MORTH specification No. 305, No. 133/ Item No. 19.60/ PWD SR 2010-11	Cum							
			0.5	50.28	37.31	0.60	562.78		
	Deduct for Settlement at 15%						-84.42		
							478.37	146.88	70262.00

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
7	KSRB 4-1.7 : Providing and laying in position plain cement concrete of nominal mix 1:3:6 using 20mm and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. No. 12/ Item No. 4.7/ PWD SR 2010-11	Cum							
			1x2	19.60	0.60	0.10	2.35		
							2.35	3980.88	9363.00
	Basic Rate	3510.00							
	Add Difference in Cost of Cement 4.40x40.00 =	176.00							
		3686.00							
	Area Weightage @ 8%	294.88							
	Total	3980.88							
8	KSRB 15.1.1: Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 97/ Item No. 15.1 / PWD SR 2010-11	Sqm							
			1x2	19.60		1.00	39.20		
							39.20	67.28	2638.00
	Basic Rate	61.50							
	Add Difference in Cost of Cement 0.02x40.00 =	0.80							
		62.30							
	Area Weightage @ 8%	4.98							
	Total	67.28							
9	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 14/ Item No. 4.31/ PWD SR 2010-11	Sqm							
	RCC Drain		1x4	61.86		1.35	334.04		
			1x4	5.00		1.35	27.00		
			1x4	15.00		1.35	81.00		
	Culvert		1	19.60		0.60	11.76		
			2	19.60		0.10	3.92		
			2	1.80		0.10	0.36		
							458.08	199.80	91525.00
	Basic Rate	185.00							
	Area Weightage @ 8%	14.80							
	Total	199.80							

15

SI	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1.4.2, No. 12/ Item No. 4.3/ PWD SR 2010-11 <i>u-v</i>	Cum							
	CC Drain		1	61.86	2.00	0.15	18.56		
			1	5.00	2.00	0.15	1.50		
			1	15.00	2.00	0.15	4.50		
	Culvert		1	19.60	2.10	0.15	6.17		
							30.73	3495.96	107438.00
	Basic Rate	3101.00							
	Add Difference in Cost of Cement $3.40 \times 40.00 =$	136.00							
		3237.00							
	Area Weightage @ 8%	258.96							
	Total	3495.96							
5	KSRB 5.2-4 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones, at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 PWD SR 2010-12 (P.21/I.5.6) <i>✓</i>	Cum							
	Culvert		1x2	19.60	0.60	0.50	11.76		
							11.76	2596.32	30533.00
	Basic Rate	2348.00							
	Add Difference in Cost of Cement $1.40 \times 40.00 =$	56.00							
		2404.00							
	Area Weightage @ 8%	192.32							
	Total	2596.32							
6	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5-1.13 Page No. 22/ Item No. 5.9/ PWD SR 2010-11 <i>✓</i>	Cum							
			1x2	19.60	0.60	1.00	23.52		
							23.52	3075.84	72344.00
	Basic Rate	2792.00							
	Add Difference in Cost of Cement $1.40 \times 40.00 =$	56.00							
		2848.00							
	Area Weightage @ 8%	227.84							
	Total	3075.84							

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BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of work: Detailed Estimate for the Work of Improvements of Nanjappa Circle in Ward No. 09, Vidyaranyapura Sub Division.

		Estimate Cost Rs.						3700000.00	
SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Dismantling size stone masonry in clay mortar and stacking the size stone within a radius of 50 m and removing the debris to a distance upto 200m, No. 268/ Item No. 37.48 PWD SR 2011-12	Cum							
			1	70.00	1.80	1.00	126.00		
			1	20.00	1.80	1.00	36.00		
							162.00		
	Deduction for Openings		1	70.00	0.60	1.00	42.00		
			1	20.00	0.60	1.00	12.00		
							54.00		
							108.00	130.68	14113.00
	Basic Rate	121.00							
	Area Weightage @ 8%	9.68							
	Total	130.68							
2	Dismantling cement concrete flooring or plain cement concrete work including removing and conveying the debris to distance upto 200 m (within average thickness of 15 cms), No. 268 / Item No. 37.51 PWD SR 2011-12	sqm							
			1	70.00	1.80		126.00		
			1	20.00	1.80		36.00		
							162.00	41.90	6788.00
	Basic Rate	38.80							
	Area Weightage @ 8%	3.10							
	Total	41.90							
3	KSRRB 300-1. Earth work excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. No. 149 / Item No. 19.2/ PWD SR 2011-12.	cum							
	CC Drain R/S		1	61.86	2.00	1.45	179.39		
			1	8.00	2.00	1.40	22.40		
	Culvert		1	19.60	2.05	0.95	38.17		
	For Road Work		1	70.00	18.70	0.15	196.35		
							436.07	87.05	37959.00
	Basic Rate	80.60							
	Area Weightage @ 8%	6.45							
	Total	87.05							



BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

Name of Work: Detailed Estimate for the Work of Improvements of Nanjappa Circle in Ward No. 09, Vidyaranyapura Sub Division.

15351-2016-021

Estimated Cost: Rs. 37.00 Lakhs

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